

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Sutter Maintenance Yard East Levee Sutter Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee			Left	21.77
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/02/2015 - 04/02/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0002_01_s _ 2013_4				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0002_01_s _ 2013_5				
Action/Comments					
Inspector Comments: The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0002_01_s _ 2013_6				
Action/Comments					
Inspector Comments: The LMA has completed flood flight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	0.33	Rating **	M	Issue No.	7
LM End	0.33	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45046 DS_ID:16859 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/7/2015 Could not locate a marker for this crossing. Unable to locate any indicator of crossing. More research may be necessary. 5/22/2013 Same as last inspection. Unable to locate a marker for this crossing. More research may be necessary. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 3-inch gas line along the landward toe. (extension of App. No. 4795 - PG&E). FS Date: 05/11/2015					

No Photos

LM Start	1.13	Rating **	M	Issue No.	8
LM End	1.13	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45050 DS_ID:16862 EP_NO: 10932 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder. Pier has no walkway to access pump on pier. This is not necessarily an issue. 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker. 10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterward slope. Concrete distribution box on the landward side. JP on WS shoulder. Original Equipment in O+M. Replaced under (App. 10932-Nall) Hand drawings available in permit. FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	1.57	Rating **	C	Issue No.	22
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.137025 °	39.137025 °
				-121.809713 °	-121.809713 °
DWR ID	DWR_ST0002_01_f_2014_22				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: The beaver hole has been repaired.					

No Photos

LM Start	4.46	Rating **	M	Issue No.	28
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.112042 °	39.112042 °
				-121.766687 °	-121.766687 °
DWR ID	DWR_ST0002_01_s_2015_28				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the vehicle ersion along the the waterside slope.					

Photo 1 of 1 : SP_2015_ST0002_450_28_20150406_00005.jpg



View of the vehicle erosion along the waterside slope.

LM Start	4.78	Rating **	M	Issue No.	27
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.108427 °	39.108427 °
				-121.762910 °	-121.762910 °
DWR ID	DWR_ST0002_01_s_2015_27				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Repair the beaver hole at the waterside toe.					

Photo 1 of 1 : SP_2015_ST0002_450_27_20150406_00006.jpg



View of the beaver hole along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	4.95	Rating **	M	Issue No.	26
LM End	4.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.106428 °	39.106428 °
				-121.761150 °	-121.761150 °
DWR ID	DWR_ST0002_01_s _ 2015_26				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Repair the beaver hole at the waterside toe.					

Photo 1 of 1 : SP_2015_ST0002_450_26_20150406_00007.jpg



View of the beaver hole at the waterside toe.

LM Start	5.20	Rating **	M	Issue No.	25
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.103313 °	39.103313 °
				-121.758813 °	-121.758813 °
DWR ID	DWR_ST0002_01_s _ 2015_25				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP_2015_ST0002_450_25_20150406_00008.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	6.19	Rating **	M	Issue No.	9
LM End	6.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.091260 °	39.091260 °
				-121.752874 °	-121.752874 °

No Photos

Action/Comments					
Inspector Comments: FS_ID:45068 DS_ID:19983 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Crossing is in good condition. No noticeable issues to report. No permit or purpose identified for this crossing. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 2.5-inch steel pipe bored under the levee at unkn own depth. Pipe has locked cap on both LS and WS toe. Steel stairs on WS slope and steel I-beam stream crossing on LS toe mark location of pipe. FS Date: 05/11/2015					

LM Start	7.59	Rating **	M	Issue No.	11
LM End	7.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °

No Photos

Action/Comments					
Inspector Comments: FS_ID:45072 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Crossing is in good condition. No noticeable issues to report. No Permit identified for crossing. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: Gas-line crosses levee at unknown depth. Carsonite sign on WS shoulder and at LS toe across toe ditch. Owned by Calpine Pipeline Company FS Date: 05/11/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	8.27	Rating **	M	Issue No.	12
LM End	8.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45073 DS_ID:19984 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Crossing is in good condition. No noticeable issues to report. No permit or purpose identified for this crossing. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 2.5-inch steel pipe bored under the levee at unknown depth. Pipe has locked cap on LS toe. Steel I-beam stream crossing on LS toe mark location of pipe. WS of pipe not identified. FS Date: 05/11/2015					

No Photos

LM Start	10.44	Rating **	M	Issue No.	13
LM End	10.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45075 DS_ID:16884 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/7/2015 Marker on WS broke5/22/2013 Carsonite marker on WS shouddler is broken and should be replaced10/30/2013 Same as last inspection5/13/2014 Same as last inspection11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	10.44	Rating **	M	Issue No.	14
LM End	10.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45076 DS_ID:16899 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/7/2015 Marker on WS broke5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced10/30/2013 Same as last inspectio5/13/2014 Same as last inspection1/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 05/11/2015					

No Photos

LM Start	10.44	Rating **	M	Issue No.	15
LM End	10.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45077 DS_ID:16900 EP_NO: 14455 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/7/2015 Marker on Ws broke5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced10/30/2013 Same as last inspection5/13/2014 Same as last inspection1/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 3 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	10.88	Rating **	M	Issue No.	1
LM End	10.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - Small section of the mid levee slope has eroded from wind wave. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: SBP_11-1_L]					

No Photos

LM Start	11.00	Rating **	M	Issue No.	16
LM End	11.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45084 DS_ID:16871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Abandoned crossing but no noticeable issues with Need to determine type of abandonment 5/22/2013 Same as last inspection 10/30/2013 Same as last inspection 5/13/2014 Same as last inspection 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 5. 4-foot by 6-foot concrete box culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterward end. Wooden steps on the landward slope. Concrete steps on the waterward end. Originally included in the O+M Manual. FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	11.00	Rating **	M	Issue No.	17
LM End	11.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:45085 DS_ID:16906 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Abandoned crossing but no noticeable issues to report. Determine type of abandonment. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 5. 4-foot by 6-foot concrete box culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterward end. Wooden steps on the landward slope. Concrete steps on the waterward end. Originally included in the O+M Manual. FS Date: 05/11/2015					

LM Start	11.01	Rating **	M	Issue No.	18
LM End	11.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:45089 DS_ID:16872 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Abandoned crossing. No noticeable issues to report. Need to determine type of abandonment. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 10-inch drainage pipe through the levee, 2.0 feet below the crown. Siphon breaker in a 36-inch CM pipe riser on the waterward shoulder. Flap gate on the waterward end. (App. 3165 - DWR). Minimalistic design drawings available. FS Date: 05/11/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	11.03	Rating **	M	Issue No.	19
LM End	11.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45090 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/7/2015 Crossing is in good condition. No noticeable issues to report. No permit identified for crossing. 5/22/2013 Same as last inspection. 10/30/2013 Same as last inspection. 5/13/2014 Same as last inspection. 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: Gas-line crosses levee at unknown depth. Carsonite sign on both LS and WS shoulder. Owned by Calpine Pipeline Company FS Date: 05/11/2015					

No Photos

LM Start	13.13	Rating **	M	Issue No.	20
LM End	13.13	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.996304 °	38.996304 °
				-121.716290 °	-121.716290 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45091 DS_ID:16883 EP_NO: 15571 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 5/7/2015 Unable to locate. Need to determine status of pipeline. Unable to locate any markers in field. 5/23/2013 Same as last inspection. Unable to locate. 10/30/2013 Same as last inspection. 5/14/2014 Same as last inspection. 11/12/2014 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 10.75-IN. STEEL GAS PIPELINE 2 feet below the levee crown. Permit #15571. Design drawings are available. FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	13.34	Rating **	M	Issue No.	23
LM End	13.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s _ 2015_23				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	13.54	Rating **	M	Issue No.	29
LM End	13.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.991808 °	38.991808 °
				-121.711512 °	-121.711512 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45103 DS_ID:16873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Crossing is in good condition. No noticeable issues to report. Verify work (if any) was done to replace original equipment with inspected 5/23/2013 Same as last inspection 10/30/2013 Same as last inspection 5/14/2014 Same as last inspection 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 5.5 feet below the crown. Pipe measures 16-inches at pump and on LS outlet. Siphon breaker in a 16-inch corrugated metal pipe riser on the landward slope. Pump on pile structure in the channel. Meter and pole on the bank. Originally included in O+M manual. FS Date: 05/11/2015					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	14.91	Rating **	M	Issue No.	30
LM End	14.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:45105 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Abandoned crossing. Needs to be properly abandoned. Pipe has not been abandoned properly. It should be removed from the levee section. 5/23/2013 Same as last inspection 10/30/2013 Same as last inspection 5/14/2014 Same as last inspection 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both WS and LS shoulders. Vertical pump on pile structure in stream (removed). FS Date: 05/11/2015					

LM Start	16.23	Rating **	A/W	Issue No.	24
LM End	16.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.965188 °	38.965188 °
				-121.670365 °	-121.670365 °
DWR ID	DWR_ST0002_01_f_2014_24				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_ST0002_450_24_20150310_00003.jpg



View of the rodent holes on the landside slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	17.60	Rating **	M	Issue No.	21
LM End	17.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.949965 °	38.949965 °
				-121.653823 °	-121.653823 °
DWR ID	DWR_ST0002_01_s _ 2015_21				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP_2015_ST0002_450_21_20150406_00009.jpg



View of the vehicle erosion along the waterside slope.

LM Start	19.46	Rating **	M	Issue No.	31
LM End	19.46	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45117 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/7/2015 Abandoned crossing. No noticeable issues to report. Need to determine type of abandonment. 5/23/2013 Same as last inspection 10/30/2013 Same as last inspection 5/14/2014 Same as last inspection 11/12/2014 Same as last inspection. FIELD_STRUCT_DESC: 10-inch drainage pipe through the levee, 4.0 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe riser on the waterward shoulder. Flap gate on the waterward end. (App. 3165 - DWR) FS Date: 05/11/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.77	04/02/2015 04/02/2015	Bob Duffey

LM Start	20.34	Rating **	U	Issue No.	10
LM End	20.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s _ 2012_10				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_ST0002_450_10_20150310_00001.jpg



View of the house next to the toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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